## FINAL RESULTS IN 164 CASES OF CARCINOMA OF THE BREAST OPERATED UPON DURING THE PAST FOURTEEN YEARS AT THE AUGUSTANA HOSPITAL.\*

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In order to condense the study of these cases sufficiently to prevent this report from becoming altogether unwieldy it has seemed best to make the following tabulations, which were compiled by my associate, Dr. N. M. Perey, from the case histories of the hospital.

The present condition of 98 patients was determined partly by correspondence with patients and with their physicians, and partly by personal examinations.

From 63 cases no information has been obtained as yet, but only 20 letters have been returned unopened, consequently it is fair to suppose that further information can be obtained concerning the condition of some of the 63 cases not heard from.

Of the 98 eases concerning which we have received reports, 54 eases are still living, and all of these with two exceptions are at the present time free from recurrence.

One patient, ease No. 38, had a careinoma of both breasts, which were removed by primary operation in 1895 elsewhere. In 1897 she had a recurrence in the left axilla, which I operated on December 7, 1897. This side has remained well since. In 1899 she had a recurrence in the right axilla, which was removed elsewhere, and which has just developed a second recurrence.

A second ease, No. 45, operated on September 19, 1898, for eareinoma of the breast, remained well until six months ago, when she noticed a swelling the size of a walnut, which has not been definitely diagnosed, although it is likely that it is a recurrence.

<sup>\*</sup> Read before the American Surgical Association, May, 8, 1007.

I have not personally examined this patient since she left the hospital.

The following table gives the number of living cases from which we have definite reports:

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| 1 year | 9 cases | 2 years | 11 cases | 3 years | 5 cases | 4 years | 7 cases | 4 years | 7 cases | 5 years | 4 cases | 6 years | 5 cases | 6 years | 5 cases | 6 years | 1 case | 7 years | 4 cases | 8 years | 1 case | 9 years | 1 case | 10 years | 1 case | 11 years | 2 cases | 12 years | 0 cases | 12 years | 0 cases | 13 years | 2 cases | 13 years | 2 cases | 13 years | 2 cases | 13 years | 54 cases | 15 years | 54 cases | 15 years | 554 cases | 15 years | 15 years
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Of the 54 cases heard from, ten complain of swelling or stiffness of the arm.

An interesting fact observed in our series of cases is shown by the following table of deaths.

It was found that but few of the very advanced eases which were considered quite hopeless at the time of operation lived more than one year after the operation, making the number that died directly after the operation from shock, together with those that lived less than one year, 25, or about 15 per cent.:

## DEATHS.

Died of shock 5 eases
Died within I year 19 cases
Died within 2 years 6 cases
Died within 3 years 6 cases
Died within 4 years I ease
Died within 5 years 2 cases
Died within 6 years I case
Died within 7 years I ease
Died within 8 years o cases
Died within 9 years 0 eases
Died within 10 years 0 eases
Died within 11 years I case
Died within 12 years O cases
Died within 13 years O eases
Died within 14 years I case
Total43 cases

ANALYTICAL TABLE OF CASES OF CARCINOMA OF BREAST OPERATED UPON AT THE AUGUSTANA HOSPITAL.

	Result.	Dicd to months later			•				Recurrence in 3 months. Died 6 months later	axulary glands Excision of breast and None			Had recurrence a year later. Doctor applied paste causing necrosis Perfectly well since	Had rapid recurrence	No trouble since first illness			
	Date of last communication of patient.			None	Nonc	None	None	None		None		None	April 16, 1907		April 24. 1907	Nonc	None	None
	Operation.	pur	Excision of breast	Excision of breast and	Excision of breast and	Excision of breast	Excision of breast	Excision of breast and	Excision of breast and	Excision of breast and	Excision of breast, axil- lary, and cervical	glands Excision of breast	44 March 12, 1894 Excision of breast	Excision of breast and	Excision of breast and April 24, 1907	Excision of breast	Excision of breast	Excision of breast and None
	Date of operation.	April 26, 1887	Jan. 12, 1888	April 19. 1891	May 8, 1891	Oct. 4, 1891	Nov. 3, 1891	Scpt. 18, 1892	March 28, 1893	Oct. 24, 1893	X Jan. 2, 1894	Jan. 30, 1894	March 12, 1894	X X   X   Oct. 19, 1894	Dec. 26, 1894	Fcb. 14, 1895	Junc 2, 1895	17   2187   45   X       July 1, 1895
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	No recurrence in 3 years, when she died of some other trouble				Died 9 months after operation apparently from involvement of in-		operation and a second about 4 months after			;	No recurrence. Died of apoplexy, April 12, 1907	Perfectly well since			No relie!		;	No recurrence in 5 years, when she died of nepbritis		-			No recurrence. Fairly good health		Both breasts removed. Primary operation 1895. Recurred left axilla 1897. Recurred right axilla 2 years later which was second	months ago. Now has another recurrence in right axilla
- Contract   Contract	None 15, 1905	TAGE C		None				None	, None	A11-6	7061 to 1100	April 16, 1907				Tyone N	None April	April 17, 1907	Lone	None	None	None	_		April 21, 1907	_
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Sept. 6, 1895	Jan. 21, 1896	Feb. 17, 1806	Frb ra -856	1, 1050	Feb. 18, 1896	May 9, 1896		June 24, 1896	Aug. 10, 1896	Oct. 13, 1896		0607 (6=	Nov. 16, 1896		Feb. 5, 1897	March 31, 1897	April 18, 1897	May 11, 1807	July 5, 1807	July 31, 1807	Ang 24 1800	160 140 1007	Dec. 1, 1897	Dec. 7, 1897		
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ANALYTICAL TABLE OF CASES OF CARCINOMA OF BREAST OPERATED UPON AT THE AUGUSTANA HOSPITAL.—Continued.

			Had rapid recurrence and died about 4 months after operation				•		Perfectly well. Can use arm nearly as well as other side	Operation successful. Never troubled since		No recurrence. Considerable swelling and disability of arm for 3 years, but since then no trouble		Recurrent case, Had breast excised 6 months previously. Skin recurrence in line of incision	Died of recurrence 3 years later
None		None		None	None		None	None	April 15, 1907	April 26, 1907	None	April 18, 1907	None	None	
Excision of breast	Excision of breast and pectoral muscles and	axillary glands  Excision of breast and  pectoral muscles and	axillary glands  Excision of breast and pectoral muscles and axillary glands. Skin	grait Excision of breast and pectoral muscles and	axillary glands Excision of breast	Excision of breast and pectoral muscles and	axillary glands  Excision of breast and pectoral muscles and	axillary glands  Excision of breast and rectoral muscles and	Excision of breast and April 15, 1907	axillary glands  Excision of breast and April 26, 1907  pectoral muscles and	Excision of breast and pectoral muscles and	axillary glands  Excision of breast and pectoral muscles and	exillary glands  Exersion of breast and pectoral muscles and	axillary glands Exeision of small nodule from old scar, size of	pea Excision of breast and pectoral muscles and axillary glands
54   5830   25      Feb. 5, 1898	Feb. 19, 1898	April 23. 1899	May 10, 1899	May 30, 1899	Aug. 17. 1899	Sept. 17, 1899	Oet. 9, 1899	Nov. 12, 1899	Dec. 3. 1899	Jan. 4, 1900	Jan. 16, 1900	Feb. 7, 1900	March 12, 1900	March 21, 1900	Marcb 27. 1900
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ANALYTICAL TABLE OF CASES OF CARCINOMA OF BREAST OPERATED UPON AT THE AUGUSTANA HOSPITAL. -- Continued

Primary operation 18 months previous, Recurrent nodule in scar. Lived 3 years after this; 4½ years after previous operation No recurrence to present time; operation successful. No X-ray ...... Had rapid recurrence and died about 6 months after operation Arm in good health. Has not been bothered again Result. ..... Died ot shock on 4th day ...... Died of shock same night Died of shock next day Recurrent case Date of last communication of patient. April 15. 1907 April 16, 1907 None None None None None Excision of breast and proteoral muscles and axillary glands axillary glands because of breast and pectoral muscles and axillary glands axillary glands and pectoral muscles and muscles and muscles and muscles and muscles and axillary glands
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Extistion of breast and A pretoral muscles and axillary glands axillary glands xcision of large area Excision of nodule in skin. Skin grafting Operation, Excision .... August 9, 1900 .... April 24, 1900 April 24, 1900 .... April 29, 1900 Date of operation. June 12, 1900 .... Sept. 11, 1900 .... Sept. 16, 1900 .... Sept. 20, 1900 Sept. 23, 1900 Sept. 8, 1900 June 5, 1900 .... Jan. r, 1900 : × Aluscle. x Involvement of : Skin, × × ::: X × : : : : Cer. Gl. : x Ax. GL × x × × × X X × × × Age. 3 3 33 ţ œ, 8 ŧ 5 8 Š S 33 7528 7530 7554 7749 8ro3 77.7 88 8083 8123 8r4x 8r54 8350 2 2 E R ż 23 ጷ 1 윷 8 8 ä

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No return of disease. Perfectly well since operation	Perfectly well since operation. Very useful arm	Examined personally. No signs of recurrence. No ædema of arm		No return of disease. Has experienced considerable discomfort with arm. But nothing serious	Two years later recurrence in line of incision, axilla, and cervical region. All disappeared under X-ray treatment	Had recurrence in axillary glands of opposite side in 3 months. Died 6 months later				Died a few months later, apparently from some internal recurrence	Died May, 1905. Had X-ray treatment for 3 years	Died of recurrence, April 1, 1903. Took X-ray for 1 year		Recurred x year after operation. Recurrence disappeared under X-ray. Recurred a years later. Died 3 years after operation	Well at that time.
April 19, 1907	April 20, 1907	April 18, 1907	None	April 16, 1907	r year ago per- fectly well		Nonc	Nonc	None				Nonc		r year ago
Excision of breast and April 19, 1907	axillary glands  Excision of breast and pectoral muscles and	axillary glands  Excision of breast and April 18, 1907  pectoral muscles and	axillary glands  Excision of breast and  pectoral muscles and	axillary glands  Excision of breast and April 16, 1907  pectoral muscles and	st and	axiliary glands  Excision of breast and pectoral muscles and	axillary glands  Excision of brenst and  pectoral muscles and	axillary glands  Excision of brenst and prectoral muscles and	axillary glands Excision of breast and		axillary ghinds Excision of breast and	axillary glands Excision of breast and	axillary glands  Excision of breast and pectoral muscles and	axillary glands  Excision of breast and pectoral muscles and	axillary glands Excision of breast and r year ago perforn muscles and axillary glands
Jan. 9. 1901	Jan. 23, 1901	Feb. 5, 1901	March 6, 1901	April 18, 1901	May 17, 1901	June 3, 1901	June 26. 1901	Aug. 13, 1901	Aug. 31, 1901	Oct. 2, 1901	Oct. 5, 1901	Oct. 7. 1901	Oct. 19, 1901	Oct. 3x, 1901	Nov. 15, 1901
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ANALYTICAL TABLE OF CASES OF CARCINOMA OF BREAST OPERATED UPON AT THE AUGUSTANA HOSPITAL.—Continued

	Result.	Had rapid recurrence and died 4 months later	Died of recurrence 2 years later. Had many X-ray treatments	Perfectly well. Took X-ray treatment for a year			Primary operation 6 years previous. Not beard from since second operation	Had other breast excised for carcinoma 2 years previous. X-ray for 1 year after first operation	Died of recurrence in May, 1903	illary glands	Took 60 X-ray treatments after operation. No recurrence. Great deal of pain in shoulder	18 months after operation had recurrence in ilium, from which she died. Had X-ray for 1 year following operation	No recurrence. Great deal of cedema of arm. X-ray for x year
Para of last	communication of patient.			April 12, 1907	None						April 15, 1907		April 13, 1907
	Operation.	Excision of breast and pectoral muscles and axillary glands. Skin	graft Excision of breast and pectoral muscles and	axillary glands Excision of breast and pectoral muscles and	axillary glands Excision of breast and pectoral muscles and	axillary glands Inoperable, No im- provement	Excised recurrent mass in skin and axillary	Excised breast and pec- toral muscles and ax-	Excised breast and pec- toral muscles and ax-	illary glands Excised both breasts for	Excised breast and pec-	and pec-	illary glands textised breast and pectoral muscles and axillary glands
	Date of operation.	X Jan. 10, 1902	Nov. 18, 1902	Feb. 28, 1902	March 10, 1902	June 23, 1902	X June 23, 1902	July 21, 1902	Sept. 29, 1902	Nov. 22, 1902	Dec. 8, 1902	Jan. 21, 1903	Feb. 6, 1903
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	No recurrence. Great deal of cedema in 2em		No signs of recurrence. Considerable ædemn of arm		Died 1 year after operation. No local signs of recurrence	Died 3 years later from pneumonia. No signs of recurrence		2	Died of cancer in chest 6 months later	Perfectly well since operation	Perfectly well. Had few X-ray treatments	X-ray for 3 months. Onc year later carcinomn developed in other breast. This was removed. Well now	30 X-ray treatments after operation. Slight swelling of arm. Otherwise well		Recurrent case. Primary operation Jan. 30, 1905. Had several slight recurences after second operation, which were cauterized with arsenic. Healed after this
	Fcb. 26. 1907		Nov., 1906				Nonc	None		April 11, 1997	May x, 1907	April 12, 1907	April 13, 1907	Nonc	glands nodule April 22, 1907
Excised breast and pec-	illary glands  Excised breast and pec- toral muscles and nx-	Excised breast and pcc- toral museles and ax-	and pec-	and pec-	t and pec-	lary glands  Excised breast and pec- toral muscles and nx-	illary glands Excised breast and pec- toral muscles and ax-	illary glands  Excised brenst and pec- toral muscles and nx-	Illary glands  Excised breast and pec- toral muscles and ax-	illary glands  Excised breast and pectoral muscles and ax-	illary glands  Excised breast and pec- toral museles and ax-	illary glands  Excised breast and pec- toral muscles and ax-	illary glands Excised breast and pec- toral muscles and ax-	illary glands  Excision of breast and fascia of pectoral mus-	cleand axillary glands Excised small nodule from old sear
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ANALYTICAL TABLE OF CASES OF CARCINOMA OF BREAST OPERATED UPON AT THE AUGUSTAN HOSPITAL.—Continued

	Result.	Died 18 months after operation of carcinoma	X-ray for 3 months after operation. Perfectly well now		Recurrent case. Had portion of breast removed 3 months previous. Again had recurrence. Asray and serum treatment. Well at present	Perfectly well		Had rapid recurrence and died April 25, 1905	No return of disease. General health very good	Examined personally. No sign of recurrence	Died Oct. 16, 1905. apparently from earcinoma inside of chest	Perfectly well
2.13	Date of last communication of patient.		April 11, 1907	None	Jan., 1907	April 12, 1907	None		April 10, 1907	April 12, 1907		May 4, 1907
	Operation.	Excised breast and pec- toral muscles and ax-	illary glands Excised breast and pectoral muscles and ax-	illary glands  Excised breast and pec-	ilary glands Excised breast and pectoral museles and axillary glands	Excised breast and pee- April 12, 1907 toral muscles and ax-	illary glands  Exelsed breast and pec- toral muscles and ax-				Excised breast and pec- toral muscle and axil- lary glands. Skin	grafted Excised breast and pectoral muscles and axillary glands
	Date of operation.	Feb. 15, 1904	July 18, 1904	X August 31, 1904	X Sept. 2, 1904	Oct. 22. 1904	Nov. 26, 1904	Nov. 30, 1904	X X Dec. 7, 1904	Jan. 4, 1905	Feb. 22, 1905	Feb. 24, 1905
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Took long time to regain strength. Perfectly well now		About 3 months after operation a small nodule appeared above clavi- cle. Has remained same ever since. No pain	Has taken 27 X-ray treatments, No recurrence,		No recurrence. General health has not been so good in years	No signs of recurrence	Died 8 months later from carcinoma in chest	Perfectly well, except some swelling of arm		Perfectly well except at times has stiffness in arm	Had rapid recurrence, and died July 22, 1906	Some numbness in arm. Otherwise well	Died about 10 months later of carcinoma	Recurrent case, Primary operation June, 1905. Died of sbock	Examined April There was evidence of local recurrence. This removed by actual 12, 1507 cautery. Wound not completely healed. Still takes X-ray
April 18, 1907	None	April 14. 1907	April 15. 1907	None	April 14, 1907	April 12, 1907		April 15, 1907	None	April 21, 1907		April 18, 1907	:		Examined April 12, 1907
Excised breast and pec- April 18, 1907	Excised breast and pec-	illary glands Excised breast and pectoral muscles and ax-	illary glands Excised breast and pectoral muscles and ax-	illary glands  Excised breast and pec- toral muscles and ax-	illary glands Excised breast and ax- illary gland, left pec-	toral muscles Excised breast and pectoral muscles and ax-	Illary glands Excised breast and pec- toral muscles and ax-		illary glands  Excised breast and pec- foral muscle and axil.	lary glands  Excised breast and pec- April 21, 1907 toral muscles and ax-			illary glands Excised breast and pec-	ands on of arm and and part of	clavicle Excised breast and pec- toral muscles and ax- illary glands
45   X       March 1, 1905	May 1, 1905	May 24, 1905	June 5, 1905	June 5, 1905	Juue 23, 2905	August 23, 1905	August 25, 1905	Oct. 23, 1905	Oct. 27, 1905	Nov. 22, 1905	Dec. 11, 1905	Dec. 18, 1905	Dec. 20, 1905	Dec. 26, 1905	Jan. 3, 1905
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ANALYTICAL TABLE OF CASES OF CARCINOMA OF BREAST OPERATED UPON AT THE

First aperation Feb., 1900. Rapid recurrence. Second aperation Oct. 19, 1900. In 1901 analyst recurrence, which disappeared under X-ray treatment. Present recurrence began 1 year age. Had recurrence in years later, which was excised May 23, 1899, 1940 decurence r year later. Took X-ray treatments until Oct., 1959, when she became bed-fast and died a shurt time afterwards No signs of recurrence. Has pain in arm if she uses it too much Nn return of former disease. X-ray 3 times a week for 5 weeks ......... Died Feb. 2, 1907, fram extension of carcinoma inta chest Took X.ray treatment for 5 weeks. Feels perfectly well Nn recurrence. Some contraction of scar in axilla Perfectly well. Has had 24 X-ray treatments Perfect result X-ray treatment far 4 months No signs of recurrence. Arm somewhat stiff Examined April | Perfect result. Nn signs af recurrence Result. AUGUSTANA HOSPITAL.—Continued Date of last communication April 22, 1907 March 4, 1907 April 30, 1907 illary glands

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Excised breast and pectoral muscles and axillary glands
Excised breast and pectural muscles and ax-Excised breast and pec-toral muscles and axillary glands

Excised breast and pectural muscles and ax-illary glands and canterired nver ribs Excised mass in old scar and cauterized hase of wnund with Operation. actual cantery Excised breast sected axilla August 1, 1906 Date of nperation. June 11, 1906 June 18, 1906 Nov. 28, 1906 Dec. 10, 1906 Oct. 26, 1906 May 23, 1889 July 23. 1906 July 23, 1956 Feb. 2, 1906 Feb. 7, 1906 Sept. 3, 1906 × : yluscle × ä Invalvement .uiste × × : : : : Cer. GL : × × × × × 'xv × × × × yBc. \$3 R œ, B 8 S ž \$ ÷ ð ŝ ż : 18752 18979 19258 z7883 7907z 18981 19933 19636 18694 19799 1990 25 8 55 3 23 158 33 8 191 ğ Mumber. 59 £

Cases not heard from, 63.

Of the 44 patients whose deaths have been reported, only 39 died either as a result of the operation or from recurrence.

The following five cases died of other causes than careinoma without recurrence:

CASE 18.—Age 47, died three years after operation from some acute disease not stated in the letter reporting her death. No signs of recurrence.

CASE 26.—Age 57, died ten years and six months after operation from apoplexy. No signs of recurrence.

CASE 32.—Age 59, died five years after operation from nephritis. No signs of recurrence.

CASE 42.—Age 58, died seven years after operation. No signs of recurrence.

CASE 116.—Age 54, died three years after operation from pneumonia. No signs of recurrence.

The following case seems to have especial interest:

CASE 12.—Age 44, was operated upon March 12, 1894. One year later had recurrence in scar. Doctor applied a paste eausing necrosis of the wound. This healed completely, and patient has been perfectly well since. Now thirteen years and two months since operation.

It has seemed proper to use X-ray treatment systematically in all cases after operation. This, however, was not always possible in patients living in the smaller country towns.

Cases which had X-ray Treatments.—All cases operated during the past six years had X-ray exposures during the patient's stay in the hospital. Of the cases heard from, 22 took X-ray treatment after leaving the hospital.

The following eases seem to be sufficiently interesting to justify especial abstracts of their histories:

CASE 87.—Age 29. Operated May 17, 1901. Six months later she had a recurrence in the line of the incision, with numerous nodules in the skin, a recurrence in the axillary and cervical glands, and apparently a careinoma in the cranial cavity causing a marked protrusion of the right eye. All of these disappeared

under X-ray exposures. The patient was last heard from one year ago. She was perfectly well at this time, five years after the operation.

CASE 96.—Age 60. Had recurrence one year after operation. This disappeared under X-ray exposures, but recurred two years later, from which she died.

CASE 125.—Age 50. Operated upon January 24, 1904. Following this had recurrence in scar. Was given vigorous X-ray exposures with very little benefit. Arsenic was applied to wound, causing necrosis of considerable amount of tissue. Wound healed completely. Patient perfectly well now.

CASE 129.—Age 43. Operated upon September 9, 1904. Had primary operation three months previous, when only a portion of the breast was removed. Had second recurrence a few months later. Under X-ray exposures and the treatment by hypodermic injections of a proprietary remedy recurrence disappeared and she is now perfectly well.

CASE 163.—Age 54. Primary operation February, 1900. Rapid recurrence. Second operation October, 1900. A few months later a second recurrence, involving the axilla and the cervical lymph glands and the tissues of the scar, making further operative treatment apparently hopeless. This disappeared under X-ray treatment and remained well for four years. Third recurrence began one year ago. This was excised December 10, 1906. Has had X-ray treatment most of the time during the past five years. Examined May 20, 1907, and found well.

CASE 164.—Age 48. Operated upon May 23, 1889. Had recurrence ten years later, which was excised May 23, 1899. Recurred one year later. Took X-ray treatments continually for three and one-half years, when she died of carcinoma.

A review of this series of cases, although incomplete, seems to show that if the very complete operation which is now generally practised is employed in these cases reasonably early, there is much reason for expecting a fair percentage of permanent cures.